

What Is Claimed Is:

1. A fusion DNA sequence encoding a fusion polypeptide comprising from the 5' end of said fusion DNA sequence:
 - a) DNA encoding a signal peptide functional in *Aspergillus*;
 - b) DNA encoding a secreted polypeptide or portion thereof normally secreted from *Aspergillus*;
 - c) optionally DNA encoding a cleavable linker polypeptide; and
 - d) DNA encoding a desired glycosyltransferase.
2. A fusion DNA sequence of Claim 1 wherein the desired glycosyltransferase is selected from the group consisting of sialyltransferase, galactosyltransferase and fucosyltransferase.
3. A fusion DNA sequence of Claim 1 wherein the signal peptide is selected from the group consisting of signal peptides from glucoamylase, α -amylase, and aspartyl protease from *Aspergillus* species and signal peptides from *Trichoderma* cellobiohydrolase I and II, and endoglucanase I and II.
4. A fusion DNA of Claim 3 wherein the signal peptide is the signal peptide from *A. niger* var. *awamori* glucoamylase.
5. A fusion DNA of Claim 1 wherein the secreted polypeptide or portion thereof is glucoamylase from *Aspergillus*.
6. A fusion DNA of Claim 5 wherein the secreted polypeptide is the full length mature glucoamylase from *A. niger* var. *awamori*.
7. A fusion DNA of Claim 5 wherein the secreted polypeptide is a portion comprising 50% of glucoamylase from *A. niger* var. *awamori*.
8. A fusion DNA of Claim 1 wherein the signal peptide comprises the signal peptide of *A. niger* var. *awamori* glucoamylase, the secreted polypeptide or portion thereof comprises glucoamylase from *A. niger* var. *awamori*, and the desired transferase is selected from the group consisting of sialyltransferase, galactosyltransferase and fucosyltransferase.

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- ~~9. An expression vector for transforming an *Aspergillus* host cell comprising DNA sequences encoding regulatory sequences functionally recognized by the *Aspergillus* host, including promoter and transcription and translation initiation sequences operably linked to the 5' end of the fusion DNA sequence of Claim 1 and transcription stop sequences and polyadenylation sequences operably linked to the 3' end of said fusion DNA sequence.~~
- ~~10. An *Aspergillus* containing an expression vector of Claim 9.~~
- ~~11. A fusion polypeptide comprising from the 5' end:~~
- ~~a) an amino acid sequence encoding a signal peptide functional in *Aspergillus*;~~
- ~~b) an amino acid sequence encoding a secreted polypeptide or portion thereof normally secreted from *Aspergillus*;~~
- ~~c) optionally an amino acid sequence encoding a cleavable linker; and~~
- ~~d) an amino acid sequence encoding a desired glycosyltransferase.~~
- ~~12. A fusion polypeptide of Claim 11 wherein the desired glycosyltransferase is selected from the group consisting of sialyltransferase, galactosyltransferase and fucosyltransferase.~~
- ~~13. A fusion polypeptide of Claim 11 wherein the signal peptide is selected from the group consisting of signal peptides from glucoamylase, α -amylase, and aspartyl protease from *Aspergillus* species and signal peptides from *Trichoderma* cellobiohydrolase I and II, and endoglucanase I and II.~~
- ~~14. A fusion polypeptide of Claim 13 wherein the signal peptide is the signal peptide from *A. niger* var. *awamori* glucoamylase.~~
- ~~15. A fusion polypeptide of Claim 11 wherein the secreted polypeptide or portion thereof is glucoamylase from *Aspergillus*.~~
- ~~16. A fusion polypeptide of Claim 15 wherein the secreted polypeptide is the full length mature glucoamylase from *A. niger* var. *awamori*.~~

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17. A fusion polypeptide of Claim 15 wherein the secreted polypeptide is a portion comprising 50% of glucoamylase from *A. niger* var. *awamori*.
18. A fusion polypeptide of Claim 11 wherein the signal peptide comprises the signal peptide of *A. niger* var. *awamori* glucoamylase, the secreted polypeptide or portion thereof comprises glucoamylase from *A. niger* var. *awamori*, and the desired glycosyltransferase is selected from the group consisting of sialyltransferase, galactosyltransferase and fucosyltransferase.